

**APPENDIX**

**VERSION WITH MARKINGS TO SHOW CHANGES MADE**

The following is a marked-up version of the changes to the claims which are being made in the attached response to the Office Action dated May 1, 2001.

**IN THE CLAIMS:**

1. (Once Amended) A viewing optical system comprising:  
an objective system for forming on an image surface an image of an object;  
an eyepiece system for enlarging and directing the image to a pupil;  
a hologram combiner [comprising a volume-type, phase-type, and reflective-type hologram and] having an optical power for constructing an equivalent surface which is optically equivalent to the image surface at a different position than the image surface as viewed from the pupil; and

an information display [means] device for displaying information on the equivalent surface,

wherein the hologram combiner transmits light from the image and reflects light from the information display [means] device so that the image can be viewed with the information overlaid thereon.

3. (Once Amended) A viewing optical system, as claimed in claim 2, wherein said information display [means] device comprises an illumination light source and a display element, said display element being for modulating light from the illumination light source so as to display information on the equivalent surface.

4. (Once Amended) A viewing optical system, as claimed in claim 2, wherein said information display [means comprising] device comprises:

an illumination light source;

a display element, said display element being for modulating light from the illumination light source so as to display information on the equivalent surface;

an image reforming mirror;

an image forming lens; and  
an incidence surface,

wherein said display element modulates light from the illumination light source so as to display information, said image reforming mirror reflects the information, displayed by the display [surface,] element, toward the image forming lens, and said image forming lens transmits the thus reflected information to the equivalent surface.

5. (Once Amended) A viewing optical system, as claimed in claim 2, said information display [means] device comprising:

an illumination light source;  
a display element; and  
an image forming lens having a selective reflective surface,

wherein said display element modulates light from the illumination light source so as to display information and said image forming lens transmits the thus displayed information to the equivalent surface.

6. (Once Amended) A viewing optical system, as claimed in claim 2, wherein said information display [means comprising] device comprises:

an illumination light source;  
a display element; and  
an image forming prism,

wherein said display element modulates light from the illumination light source so as to display information and the image forming prism transmits the thus displayed information to the equivalent surface.

10. (Once Amended) An optical apparatus comprising a viewing optical system, said viewing optical system comprising:

an objective system for forming on an image surface an image of an object;  
an eyepiece system for enlarging and directing the image to a pupil;  
a hologram combiner [comprising a volume-type, phase-type, and reflective-

type hologram and] having an optical power for constructing an equivalent surface

which is optically equivalent to the image surface at a different position than the image surface as viewed from the pupil; and

an information display [means] device for displaying information on the equivalent surface,

wherein the hologram combiner transmits light from the image and reflects light from the information display [means] device so that the image can be viewed with the information overlaid thereon.

12. (Once Amended) An optical apparatus, as claimed in claim 11, wherein said information display [means] device comprises an illumination light source and a display element, said display element being for modulating light from the illumination light source so as to display information on the equivalent surface.

13. (Once Amended) An optical apparatus, as claimed in claim 11, wherein said information display [means comprising] device comprises:  
an illumination light source;  
a display element, said display element being for modulating light from the illumination light source so as to display information on the equivalent surface;  
an image reforming mirror;  
an image forming lens; and  
an incidence surface,  
wherein said display element modulates light from the illumination light source so as to display information, said image reforming mirror reflects the information, displayed by the display surface, toward the image forming lens, and said image forming lens transmits the thus reflected information to the equivalent surface.

14. (Once Amended) An optical apparatus, as claimed in claim 11, said information display [means] device comprising:  
an illumination light source;  
a display element; and  
an image forming lens having a selective reflective surface,

wherein said display element modulates light from the illumination light source so as to display information and said image forming lens transmits the thus displayed information to the equivalent surface.

15. (Once Amended) An optical apparatus, as claimed in claim 11, wherein said information display [means comprising] device comprises:

an illumination light source;

a display element; and

an image forming prism,

wherein said display element modulates light from the illumination light source so as to display information and the image forming prism transmits the thus displayed information to the equivalent surface.